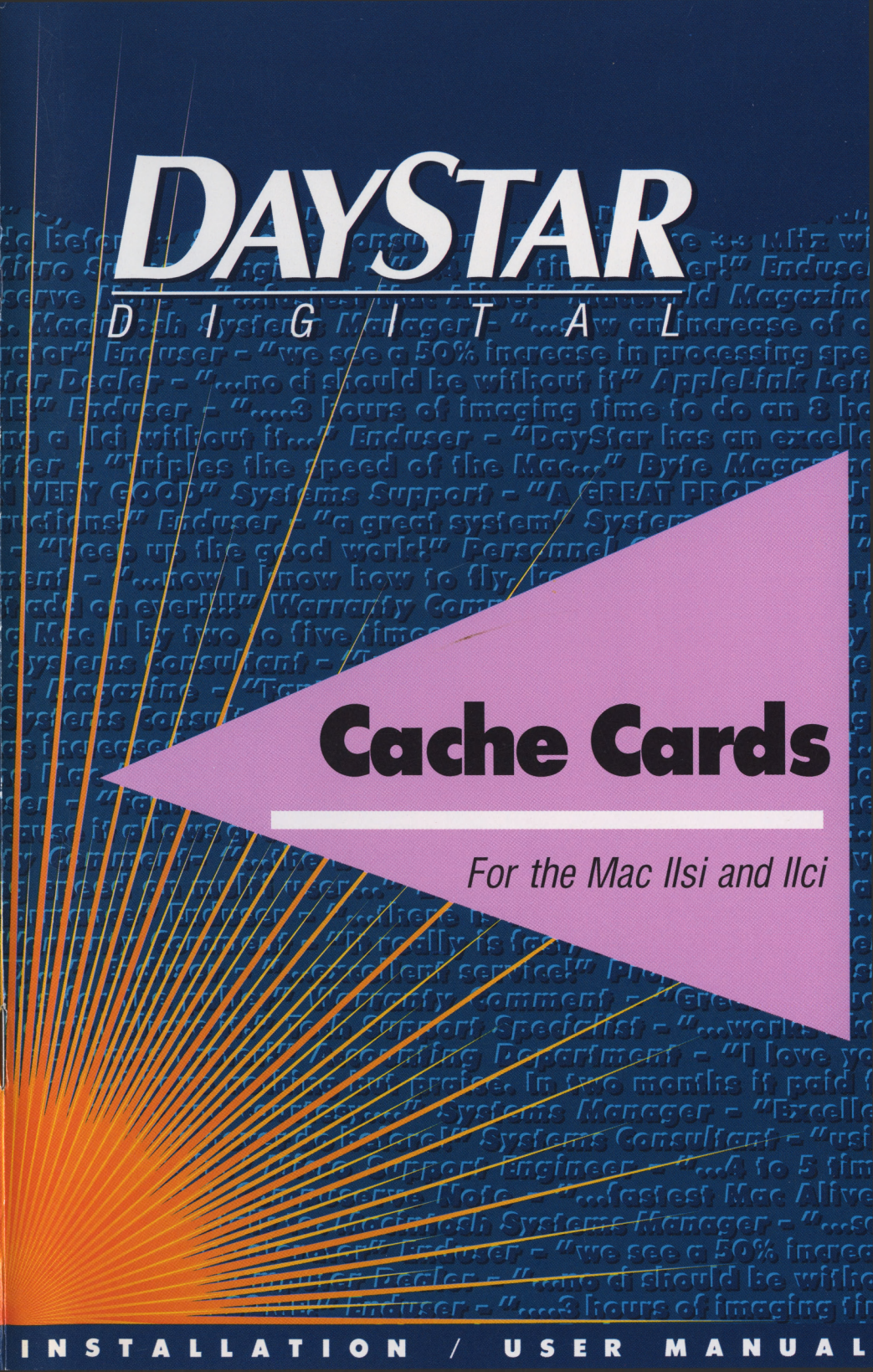

DAYSTAR
DIGITAL
Cache Cards
For the Mac IIsi and IIci
INSTALLATION / USER MANUAL

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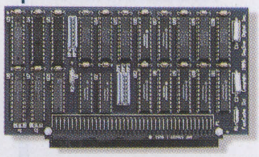
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About DayStar's IIsi & IIci Cache Cards

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Thank you for purchasing a DayStar product. You have purchased a performance upgrade with unsurpassed compatibility, reliability and performance.

FastCache

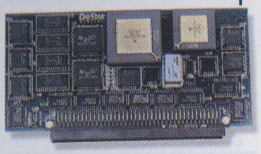


The FastCache IIci was introduced in conjunction with Apple's Macintosh IIci in September 1989 and has been available for nearly a year longer than any competitive product. The FastCache IIsi was introduced in August of 1991 and incorporates the superior technology of the FastCache IIci. The Macintosh IIci and IIsi are incomplete without a cache card. FastCache completes these Mac designs by allowing the processor to run at its maximum speed. CPU wait states are the main bottleneck for maximum processing performance on the IIsi and IIci. The FastCache card minimizes wait states, which results in optimized performance. With the FastCache installed, code is loaded into 64K of fast Static RAM on the FastCache card. This gives the same information to the 68030 three times faster. In real life, over 80% of the data that the processor needs will be instantly available in the cache's memory. (Performance gain varies depending on the application.)

FastCache to PowerCache upgrade

DayStar has always provided upgrade paths for our customers. In this tradition, when FastCache owners are ready for additional performance they can return their card for credit towards a PowerCache. For further upgrade information, please contact your dealer or DayStar at (800) 962-2077, Ext. 120 or (404) 967-2077, Ext 120.

PowerCache



The PowerCache is the logical extension of the FastCache with CPU acceleration. The PowerCache substantially increases Macintosh system speed and responsiveness. Users benefit through increased productivity. They are able to complete more work in a day or spend the time saved to improve work quality.

It is based on the Motorola 68030 CPU and an optional 68882 math chip, which operate at 40 or 50 MHz clock speeds. The PowerCache includes a 32K high-speed Static RAM cache that allows the CPU to operate at faster speeds. It does this by reducing wait states, without the user having to add new high-speed SIMMs.

The PowerCache is a single board that plugs into the IIci's built-in 120 pin cache slot or the cache connector of the DayStar DualPort IIsi on the Mac IIsi. The Mac II, IIx and IIcx versions include an adapter board that plugs into the CPU socket and provides a 120 pin cache slot. Since the PowerCache uses this cache slot, all NuBus slots remain free. The LC and SE/30 versions are shipped with adapters for plugging into their respective PDS connector.

It is 100% compatible with all standard Macintosh hardware and software. Once installed, the PowerCache is transparent to the user. The Macintosh operates exactly as before, except the user notices significant gains in performance.

The PowerCache's built-in 32K Static RAM cache increases the CPU's processing speed by eliminating the time spent waiting for the relatively slow motherboard SIMMs. This waiting time is commonly called a wait state. The faster clock speed of the 68030 lets it process more quickly. Without a cache, however, it

still has to wait for data and instructions from the motherboard SIMMs. This causes a large performance penalty.

With the PowerCache, the CPU gets the information it needs from the faster memory of the cache without having to wait for the motherboard SIMMs. No additional high speed memory is required, which preserves the user's original investment.

DayStar offers an optional 68882 math coprocessor at a speed that matches the CPU up to 50 MHz. While a PowerCache without a math chip will continue to use the motherboard's math coprocessor (except for the Mac IIsi which doesn't have a math coprocessor), some applications can benefit from a faster speed math chip. Customers who do math intensive work such as spreadsheet recalculations, 3D modeling & rendering or work with Computer Aided Design (CAD) or scientific applications like Mathematica, may wish to purchase the PowerCache with the 68882 math chip.

PowerMath

DayStar's PowerMath is a powerful software utility that boosts the performance of math-intensive tasks which don't use the math chip directly. PowerMath traps application calls to Apple's Standard Apple Numeric Environment (SANE) routines and diverts them to the 68882 math chip (either on the motherboard or PowerCache, depending on the upgrade installed). This can greatly increase performance over that of standard SANE, without compromising accuracy, a feature unique to DayStar's software.

Included with the cache card

The DayStar product is shipped with the following parts:

- The FastCache or PowerCache Board in an anti-static bag
- DualPort IIsi Adapter (IIsi only)
- User's Manual
- Software Disk
- Anti-Static Bracelet

If any of the above listed parts are not in the package, please contact your dealer or DayStar Digital immediately.

You can reach DayStar at (800) 962-2077, Ext. 120, or (404) 967-2077, Ext. 120.

Complete the warranty card

As DayStar continues to improve and enhance its product line, we would like to keep you informed of our advancements. To take advantage of our Software Update Program and new product releases, please take a moment to complete the Product Warranty card included with this manual. Technical support is available through AppleLink (DAYSTAR.TECH), CompuServe (75300,1544), or by contacting DayStar Technical Support at (800) 962-2077, Ext. 120, or (404) 967-2077, Ext. 120.

About this manual

This manual contains the following sections:

- **Chapter 1:** "Installing DayStar's IIci Cache Cards" includes a step-by-step procedure for the installation and testing of the board in a Mac IIci.
- **Chapter 2:** "Installing DayStar's IIsi Cache Cards" includes a step-by-step procedure for the installation and testing of the board in a Mac IIsi.
- **Chapter 3:** "Installing The DayStar Software" details the procedures for installing and using the software included with the board. This chapter also provides step-by-step procedures for troubleshooting and contains a list of tips that help to maximize performance.
- **Appendix A:** "Adding A Math Chip" explains how to add a 68882 math coprocessor to your PowerCache.
- **Appendix B:** "Product Support" includes the product specifications, warranty and procedures for returning DayStar products for service.

CHAPTER 1

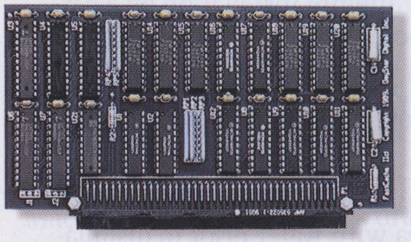
INSTALLING DAYSTAR'S IICI CACHE CARDS

CHAPTER 1

INSTALLING DAYSTAR'S ICI CACHE CARDS

Getting started

Please read all of the instructions before beginning the installation procedure. If you are unfamiliar with using the Macintosh IIci, review the Macintosh IIci Owner's Guide prior to installation.

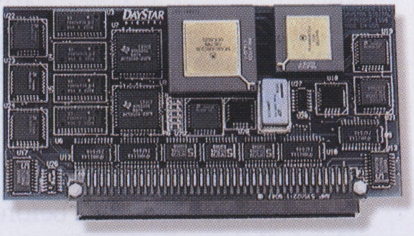




FastCache



PowerCache



WARNING: DayStar cache cards use electronic components that are sensitive to static electricity. When handling and installing electronic boards, you must take care to prevent the components from being damaged by static currents. Always work in an area of low static electricity. Connect the anti-static bracelet to a grounded surface to prevent static discharge.

Precautions

Here is a brief list of precautions that help ensure proper grounding:

- **WEAR THE ANTI-STATIC BRACELET.**
- **DO NOT** attempt installation on a carpeted floor.
- **DO NOT** wear leather shoes - shoes with rubber soles are recommended.
- **DO NOT** attempt installation in an overly dry environment - spray mist the work area with water prior to installation.
- **DO NOT** wear silk or polyester clothing while doing the installation - we recommend cotton clothing.
- **REMOVE ALL JEWELRY** (rings, bracelets, watches, etc.) before installation.
- **TOUCH A METAL SURFACE** on the Macintosh IIci power supply before you pick up the board. This releases any static electricity that may be present.

Important: You should refer installation to a dealer or a trained service technician if you are uncomfortable with installing electronic components. You can severely damage electronic circuitry or sustain serious personal injury.

Installing the DayStar IIci Cache Card

The physical installation of the DayStar IIci Cache Card was designed to be easy. You must, however, take certain precautions:

1. Backup all hard drives before beginning the installation.
2. Turn off the Macintosh IIci and remove the AC power cord and all accessory cables from the back of the Macintosh.
3. Press the power switch on rear of the Macintosh IIci three times to drain the power supply.
4. Place the Macintosh IIci on an unobstructed flat work area with the front of the Macintosh facing toward you.
5. Open the Macintosh IIci case and locate the cache connector (see Figure 1).

NOTE: Refer to the Macintosh IIci Owner's Guide if you are unfamiliar with removing the case cover and need further information on the procedure.

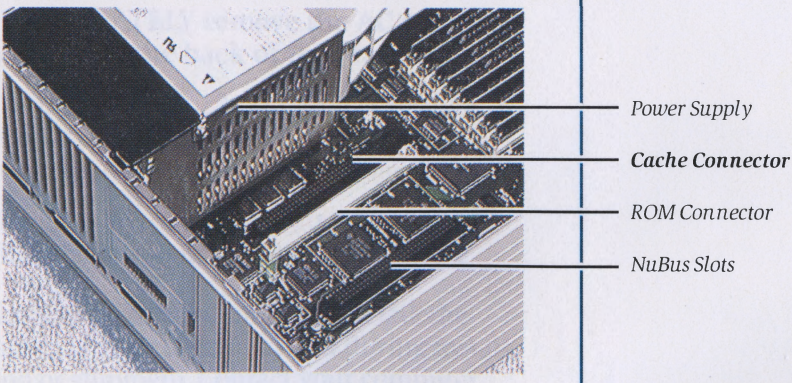


Figure 1 - View of the Macintosh IIci

6. With the component side of the IIci cache card facing the power supply, align the board's connector over the 120 pin connector on the motherboard. Gently push the card down until it is fully seated.

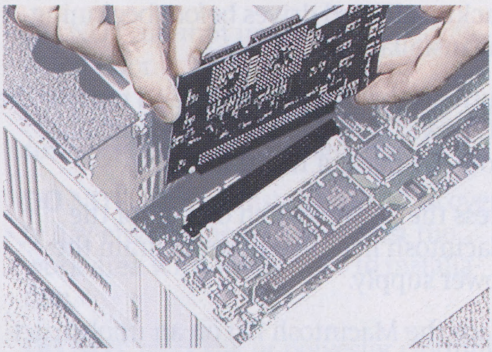


Figure 2 - Installing the IIci cache card

You have installed the IIci cache card. Now you must test the installation and install the software.

Testing the installation

Before testing, read ALL of this section.

Plug the AC power cord into the back of the Macintosh IIci. Press the power switch on the back of the Macintosh. You should hear the customary BONG, but it may sound slightly shorter.

If you hear the BONG.

Turn the power off. Replace the case cover, and attach all cables you have removed. You are now ready to install the software. Turn to page 31 for instructions on how to continue.

If you DO NOT hear the BONG, you may experience one of these symptoms:

- There is no response when the power to the Macintosh IIci is turned on.
- The Macintosh IIci doesn't startup properly when the power is turned on.
- A different sound (the failure tone) is heard when power is turned on.

1. **IMMEDIATELY remove the AC power cord from the back of the Mac IIci.**
2. Review Chapter 1. Verify proper installation, making sure the IIci cache card is fully seated over the cache connector.
3. Plug the AC power cord into the back of the Macintosh IIci and restart as before.

If the startup process continues to fail, the board may have been damaged during installation or shipment. Contact your computer dealer or call DayStar Technical Support at (800) 962-2077, Ext. 120, or (404) 967-2077, Ext. 120, for further assistance.

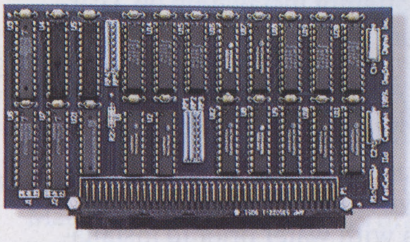
CHAPTER 2

INSTALLING DAYSTAR'S IISI CACHE CARDS

CHAPTER 2

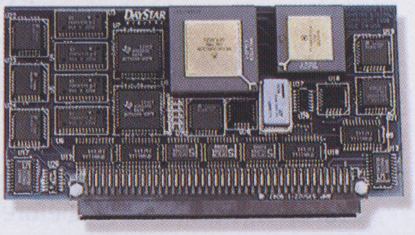
INSTALLING DAYSTAR'S ISI CACHE CARDS

Please read all of the instructions before beginning the installation procedure. If you are unfamiliar with using the Macintosh IIsi, review the Macintosh IIsi Owner's Guide prior to installation.









WARNING: DayStar IIsi cache cards use electronic components that are sensitive to static electricity. When handling and installing electronic boards, you must take care to prevent the components from being damaged by static currents. Always work in an area of low static electricity. Connect the anti-static bracelet to a grounded surface to prevent static discharge.

Precautions

Here is a brief list of precautions that help ensure proper grounding:

- **WEAR THE ANTI-STATIC BRACELET.**
- **DO NOT** attempt installation on a carpeted floor.
- **DO NOT** wear leather shoes - shoes with rubber soles are recommended.
- **DO NOT** attempt installation in an overly dry environment - spray mist the work area with water prior to installation.
- **DO NOT** wear silk or polyester clothing while doing the installation - we recommend cotton clothing.
- **REMOVE ALL JEWELRY** (rings, bracelets, watches, etc.) before installation.
- **TOUCH A METAL SURFACE** on the Macintosh IIsi power supply before you pick up the board. This releases any static electricity that may be present.

Important: You should refer installation to a dealer or a trained service technician if you are uncomfortable with installing electronic components. You can severely damage electronic circuitry or sustain serious personal injury.

Installing the DayStar IIsi Cache Card

The physical installation of the DayStar IIsi Cache Card was designed to be easy. You must, however, take certain precautions:

1. Backup all hard drives before beginning the installation.
2. Turn off the Macintosh IIsi and remove the AC power cord and all accessory cables from the back of the Macintosh.
3. Press the power switch on rear of the Macintosh IIsi three times to drain the power supply.
4. Place the Macintosh IIsi on an unobstructed flat work area with the front of the Macintosh facing toward you.
5. Open the Macintosh IIsi case and locate the PDS connector (see Figure 1).

NOTE: Refer to the Macintosh IIsi Owner's Guide if you are unfamiliar with removing the case cover and need further information on the procedure.

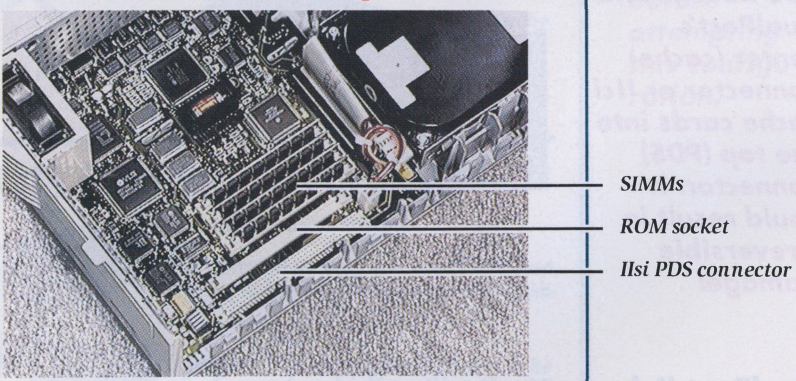


Figure 3 - View of the Macintosh IIsi

The DualPort IIsi

The DualPort IIsi is our standard connector for the installation of the PowerCache IIsi. It has a math socket for an optional math chip.

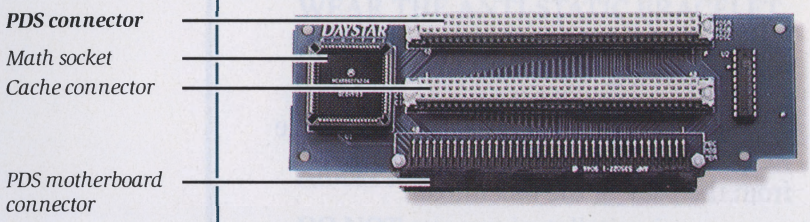


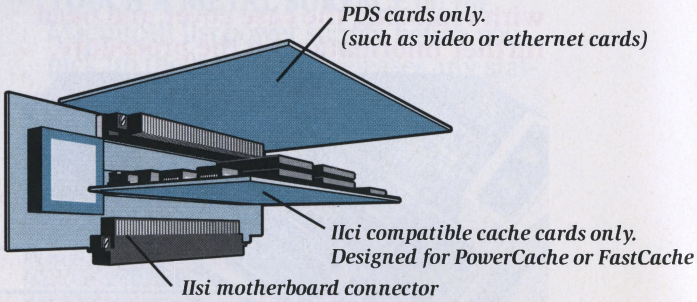
Figure 4 - The DualPort IIsi

The bottom connector of the DualPort will plug into the PDS on the Mac IIsi.

The center connector on the DualPort is for IIci compatible cache cards only, this is where you will connect the included DayStar card.

The top connector is a fully functional PDS. It follows all Apple PDS specifications. It is compatible with all conforming Mac IIsi PDS cards.

Warning: DO NOT plug any PDS boards into DualPort's center (cache) connector or IIci cache cards into the top (PDS) connector. It could result in irreversible damage!



Note: If the PowerCache has a 40 or 50 MHz math chip, then 20 MHz math chips on any other installed cards will be ignored.

DualPort IIsi possible configurations

The DualPort IIsi has been designed to work with other third party IIsi add in cards. Contact DayStar for an up to date listing of those which we have tested.

The PDS Adapter

Our optional PDS Adapter is for use in situations where another third party PDS adapter must reside in the motherboard connector.

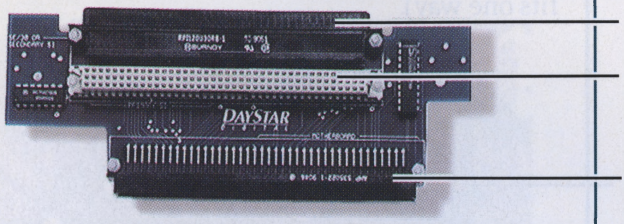
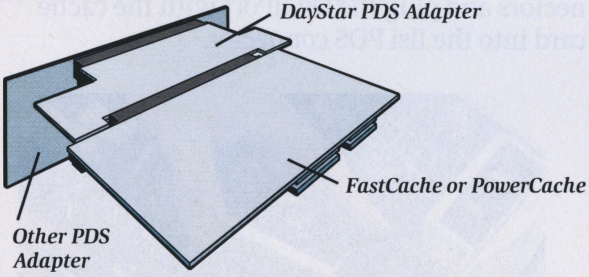


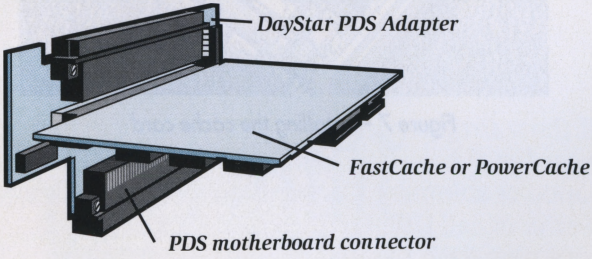
Figure 5 - The PDS Adapter

The PDS Adapter provides two IIci cache slots, allowing the card to be used directly in the motherboard, or it can be plugged into another PDS adapter. Note: only one connector can be used at a time.

With other adapter



With no other adapter



Note: Some adapters may not pass up the necessary signals to run a Cache card. Call DayStar Tech Support before attempting this configuration.

Prepare the cache card for installation

You should be wearing the anti-static wrist strap. Begin by first connecting the cache card to the middle connector of the DualPort. Note that the cache card will be facing up (it only fits one way).

IMPORTANT: Connect cache card to middle slot **ONLY.**

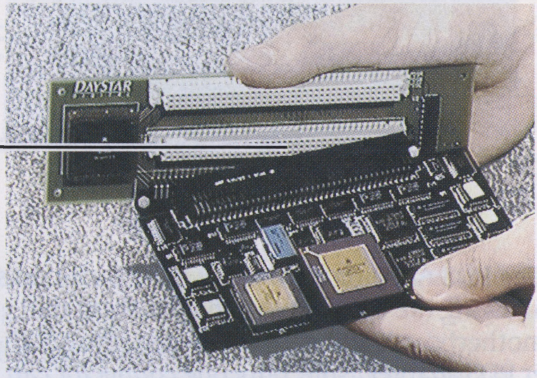


Figure 6 - Connect the cache card to the DualPort

Now, holding the pieces firmly, align the connectors and plug the DualPort with the cache card into the IIsi PDS connector.

Plug adapter into IIsi PDS connector

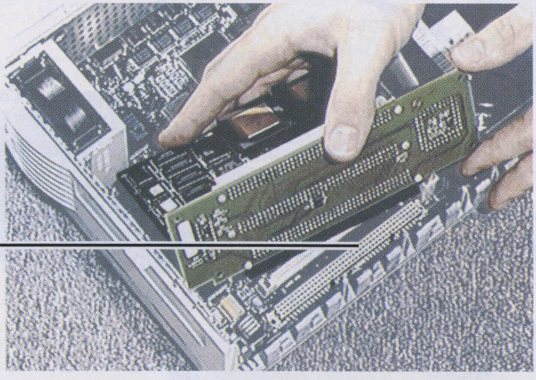
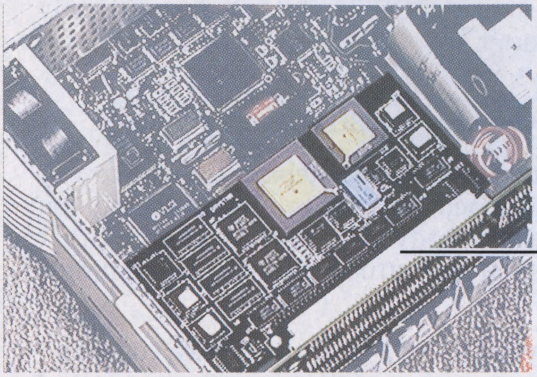


Figure 7 - Installing the cache card

The installation of the cache card and adapter is now complete. You may install additional PDS cards or an optional 20 MHz Math chip (available from DayStar) at anytime.



PDS connector open for expansion with any standard IIsi PDS cards

Figure 8 - Completed installation

Check that all connections are tight. You are now ready to test the installation.

Testing the installation

Before testing, read ALL of this section.

Plug the AC power cord into the back of the Macintosh IIsi. Press the power switch on the back of the Macintosh. You should hear the customary BONG, but it may sound slightly shorter.

If you hear the BONG.

Turn the power off. Replace the case cover, and attach all cables you have removed. You are now ready to install the software. Turn to page 31 for instructions on how to continue.

If you DO NOT hear the BONG, you may experience one of these symptoms:

- There is no response when the power to the Macintosh IIsi is turned on.
- The Macintosh IIsi doesn't startup properly when the power is turned on.
- A different sound (the failure tone) is heard when power is turned on.

1. **IMMEDIATELY remove the AC power cord from the back of the Mac IIsi.**
2. Review Chapter 2. Verify proper installation, making sure the IIsi cache card is fully seated over the cache connector.
3. Plug the AC power cord into the back of the Macintosh IIsi and restart as before.

If the startup process continues to fail, the board may have been damaged during installation or shipment. Contact your computer dealer or call DayStar Technical Support at (800) 962-2077, Ext. 120, or (404) 967-2077, Ext. 120, for further assistance.

CHAPTER 3

INSTALLING THE DAYSTAR SOFTWARE

Installing the DayStar software

Follow these steps to install the software for the cache cards onto the hard (startup) disk:

1. Insert the DayStar disk into the floppy drive. Start the Macintosh.
2. Copy the cache card file from the floppy disk to:
   - *the System Folder* of your Startup hard drive if running System 6.07 or below.
   - *the Control Panels Folder* of your Startup hard drive if running System 7.0 or above.

- OR -



Figure 9 - Copy File to System Folder

Either the "FastCache" or "PowerCache" file will be enclosed, depending on the upgrade purchased.

3. Restart the Macintosh. If the Macintosh does not restart from the hard disk, see the troubleshooting section at the end of this chapter.

Using the FastCache software

To access the FastCache software, select Control Panel(s) from the Apple pull-down menu. Select (or double click in System 7) the FastCache icon. The following screen will appear.

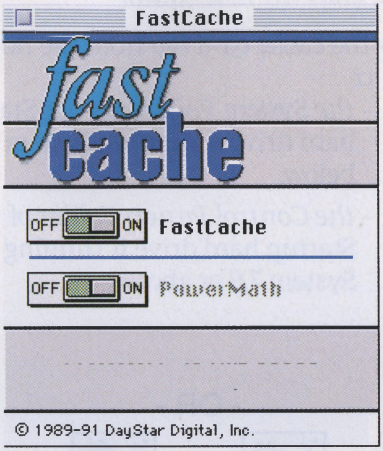


Figure 10 - FastCache Software Options

The software options allow changes to the system operation as follows.

- **FastCache** - Switches the FastCache's 64K cache on and off, which enables the processor to access the most recently used 64K of code with minimum wait-states. Results are immediate.
- **PowerMath** - Allows you to invoke DayStar's PowerMath. This system level software lets applications that do not normally use the math coprocessor take advantage of the math coprocessor's speed for floating point math calculations. The PowerMath routines provide significant performance increases over Apple's SANE (Standard Apple Numeric Environment), maintaining the same level of accuracy.

Note: PowerMath will not function if other enhanced SANE software, such as RadiusMath, is installed.


FastCache

Using the PowerCache software

To access the PowerCache software, select Control Panel(s) from the Apple pull-down menu. Select (or double click in System 7) the PowerCache icon. The following screen will appear.

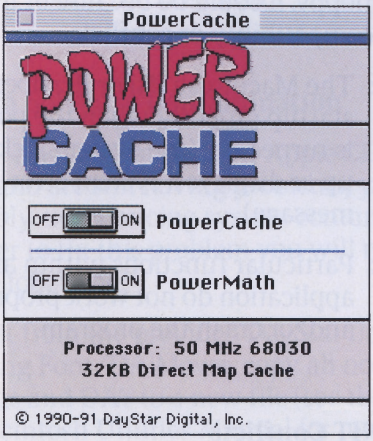


Figure 11 - PowerCache Software Options

The software options allow changes to the system operation as follows.

- **PowerCache** - Switches the PowerCache's 32K cache on and off, which enables the processor to access the most recently used 32K of code with minimum wait-states. Results are immediate.
- **PowerMath** - Allows you to invoke DayStar's PowerMath. This system level software lets applications that do not normally use the math coprocessor take advantage of the math coprocessor's speed for floating point math calculations. The PowerMath routines provide significant performance increases over Apple's SANE (Standard Apple Numeric Environment), maintaining the same level of accuracy.

The capability to turn off the cache is provided. With the cache off, the Mac still runs at the accelerated clock speed. Performance will be significantly reduced.

Note: PowerMath will not function if other enhanced SANE software, such as RadiusMath, is installed.


PowerCache

Trouble-shooting

DayStar products are compatible with all standard Macintosh hardware and software. If you experience problems booting from the hard drive, and not when booting from the provided DayStar floppy, it could be because of INIT or CDEV incompatibility or conflicts.

Symptom: The Macintosh IIsi or IIci doesn't startup properly when the power is turned on, (the System locks up or displays a system error message).

Symptom: Particular functions within an application do not work properly and/or crash the program.

CDEV or INIT Conflicts

1. Boot from the provided DayStar floppy and remove all third party INITs and CDEVs from the hard disk's System Folder.
2. Restart the Macintosh from the hard disk. (If the Macintosh does not start-up properly at this point, it is probably due to a contaminated System Folder. Go to System Software Contamination.)
3. Starting with the PowerCache/FastCache CDEV, reinstall the INITs and CDEVs into the System Folder one at a time. Restart the machine after adding each CDEV or INIT until you encounter the problem. After this happens, restart from a floppy, and remove the last CDEV or INIT loaded. Proceed again with the systematic check until you have removed all CDEV and INIT conflicts.

Tech Support
1-800-962-2077
ext 120

NOTE: Some conflicts can be overcome by changing the first character of the troublesome CDEVs or INITs name. Since these files load in alphabetical order, this will alter the order in which the they load.

System Software Contamination

If you remove all of the non-Apple CDEVs and INITs and are still having problems, you are probably experiencing system contamination. In order to fix this problem you will need to do the following:

1. Boot from the provided DayStar floppy. Using Font/DA Mover, copy all non-Apple fonts and DA's to a new file (see the Macintosh Utilities Manual for more information on the Font/DA Mover). Remove the System Folder on the hard disk by placing it in the trash.

   NOTE: You must throw away the System file instead of installing a new one on top of the old one. Use Apple's System Installer rather than dragging software over to the hard drive.

2. Using the Apple Installer, reinstall the System software on the hard disk. DayStar recommends that you specify "System software for Mac IIci or IIsi" and NOT "System software for any Macintosh". Copy the PowerCache/ FastCache file to the newly installed System Folder.

3. Restart the Macintosh.

If the Macintosh still does not restart, please contact your dealer or DayStar Technical Support at 1-800-962-2077, Ext. 120, or (404) 967-2077, Ext. 120.

Tech Support
1-800-962-2077
ext 120

Performance tips

- Because the Mac IIci uses motherboard memory for its on board video, there are certain memory configurations that can maximize the system's performance. If you are using the on board video, make sure that you install the most dense RAM SIMMs in memory bank B. For example, if you have four 1 MB SIMMs and four 4 MB SIMMs, make sure that the 4 MB SIMMs are installed in memory bank B.
- Keep the number of Control Panel and System Extension files that you have in the System Folder to a minimum. If you find that you are not using the features of such a file, remove it from the System Folder. Not only can these files cause conflicts with one another, they can also rob the system of performance.
- By placing a space in front of the FastCache or PowerCache CDEV's name, it will load sooner. This speeds up the booting process by turning on the FastCache or PowerCache sooner.

Tech Support
1-800-962-2077
ext 120

- Vary the size of the Apple Disk Cache in order to find an optimum setting for your system. The Disk Cache is located in the General Control Panel under System 6.x, or in the Memory Control Panel under System 7.x.
- When installing the System software always use the Apple Installer... and, we suggest that you first completely remove the hard drive's original System Folder. In some cases the Apple Installer will not completely remove the corrupted part of the System. Starting from scratch assures having a "clean" System.

APPENDIX A

ADDING A MATH CHIP

Performance tips

APPENDIX A

ADDING A MATH CHIP

Tech Support
1-800-963-2877
ext 120

Adding a 68882 Math Chip

If you purchased a PowerCache without a math chip and wish to add a chip, you must ensure that it is installed in the correct orientation. The math chip's number one pin is highlighted by what appears to be a tall "Y" in one corner. Holding the card as shown below, this corner of the math chip should be pointed down and to the left. The math chip must be the same speed as the PowerCache's CPU.

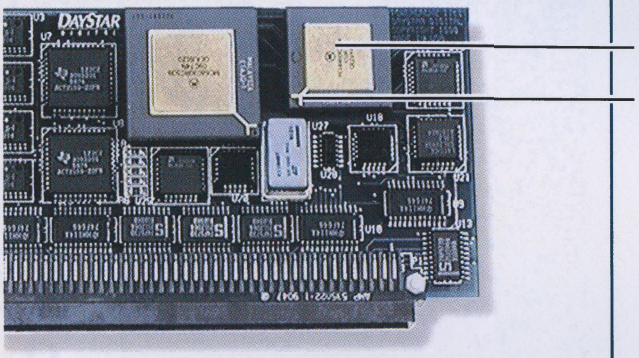


Figure 12 - Math Chip Orientation

Installing the math chip will require a reasonable amount of pressure to ensure that it is fully seated on the PowerCache. We recommend that installation be done on a flat surface that provides a slight cushion to the card.

If you have any questions please contact DayStar Technical Support at 1-800-962-2077, Ext. 120, or (404) 967-2077, Ext. 120.

Adding a 68882 Math Chip

If you purchased a PowerCache without a math chip and wish to add a chip, you must ensure that it is installed in the correct orientation. The math chip's number one pin is highlighted by what appears to be a tail "J" in one corner. Holding the card as shown below, this corner of the math chip should be pointed down and to the left. The math chip must be the same speed as the PowerCache's CPU.

Figure 12 - Math Chip Orientation

Installing the math chip will require a reasonable amount of pressure to ensure that it is fully seated on the PowerCache. We recommend that installation be done on a flat surface that provides a slight cushion to the card.

If you have any questions please contact DayStar Technical Support at 1-800-962-2077, Ext. 120, or (404) 967-2077, Ext. 120.

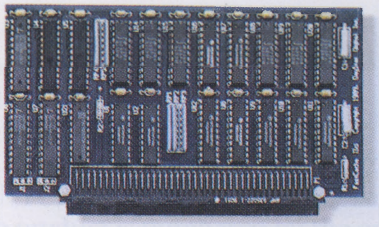
APPENDIX B

PRODUCT SUPPORT

APPENDIX B

PRODUCT SUPPORT

FastCache specifications



System Requirements

- Apple® Macintosh® IIsi, IIci

· Cache Architecture

- 64K direct-mapped physical cache with 32 bit cache line
- Superfast Static RAM

· Software

- Control Panel for cache management
- PowerMath to speed up Apple SANE calculations

· Connector

- 120 Pin Cache Slot

· Interface

- Apple Cache Slot

· Compatibility

- Compatible with standard Macintosh software

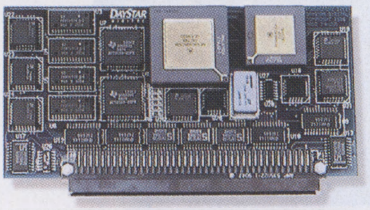
· Physical Dimensions

- 3" x 6". Conforms to Apple specifications for third party cache cards

· Warranty

- 3 year limited warranty

PowerCache specifications



System Requirements

- Apple® Macintosh LC, SE/30, II, IIx, IIcx, IIsi, IIci

· Cache Architecture

- 32K direct-mapped physical cache with 32 bit cache line
- Superfast static RAM

· Processor

- Motorola® MC 68030 40 or 50 MHz
- Motorola MC 68882 math processor (optional) 40 or 50 MHz

· Software

- Control Panel for cache and buffer management
- PowerMath to speed up Apple SANE math

· Connector

- 120 Pin Cache Slot

· Compatibility

- Compatible with standard Macintosh IIci software
- including System 7 and A/UX

· Warranty

- 12 month limited warranty

Product warranty

DayStar Digital, Inc. warrants that it will repair or replace, at its option, any defective products properly returned to our factory at no additional charge for a period of ONE (1) FULL YEAR for the PowerCache and THREE (3) FULL YEARS for the FastCache from the date the product is purchased by the original end user.

This warranty does not apply if the hardware product has been damaged by accident, misuse, or abuse including installation with non-compatible products, or has been modified in any way, or if the serial number has been removed or defaced. This warranty does not apply to damage or failure of the host computer power supply, analog and/or CPU logic board, or any other add-in boards. This warranty is extended only to original end users.

THE GUARANTEE, WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS, ORAL OR WRITTEN, EXPRESS OR IMPLIED. DAYSTAR IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPLACEMENT OF EQUIPMENT AND PROPERTY AND ANY COSTS OF RECOVERING, PROGRAMMING, OR REPRODUCING ANY PROGRAM OR DATA STORED OR USED WITH DAYSTAR PRODUCTS.

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Contacting DayStar online

DayStar supports a forum on CompuServe located in the Mac A Vendor Forum, Section 6. Our corresponding library is LIB 6. You can contact DayStar through the forum or by EMail at 75300,1544.

You can also reach DayStar via Applelink. Our software is available at the following location: Software Sampler; 3rd Party Demos/Updates; Software Updates; DayStar Digital. Our link address is DAYSTAR.TECH.

How to return DayStar products for service

Before you return the product, please call the DayStar Technical Support Department for assistance at (404) 967-2077, Ext. 120, or (800) 962-2077, Ext. 120. Many times we can solve problems without asking you to send the board in for service. If the board does need service, please take it back to the dealer who sold it to you.

We will be happy to serve you. Items returned for service must have an RA number, which will be issued to you or your dealer when you call DayStar's Technical Support Department. Returned items must be sent back in good condition, unmodified and undamaged, with shipping charges prepaid. DayStar will repair or replace the board and ship it back to you or your dealer. For each item you return you must enclose your name, address, telephone number, RA number, a description of the problem, and a copy of the bill of sale bearing the appropriate DayStar serial numbers as proof of the original date of purchase.

How to upgrade the FastCache to the PowerCache

The DayStar Swap-Up Program – We protect your investment. Should your need for speed ever increase, we are happy to inexpensively upgrade you to the top of the line. The cost of any upgrade within the same product category is simply the difference between the list price of the product you own and the product you want (on the current price list). Costs for cross-platform and math chip upgrades are calculated the same way.

Contact DayStar Customer Service at 800-962-2077 or 404-967-2077 to schedule upgrades.

All correspondence and technical questions should be referred to:

DayStar Digital, Inc.
Technical Support Department
5556 Atlanta Highway
Flowery Branch, GA 30542

(404) 967-2077 ext. 120
(800) 962-2077 ext 120
AppleLink (DAYSTAR.TECH)
CompuServe (75300, 1544)

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This manual was designed and produced on a Macintosh with the DayStar upgrades installed.

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